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44. (NEW) A multi carrier frequency transmission method comprising the steps of:

receiving a plurality of different digital signals to be transmitted, said different signals to be transmitted on different carrier frequencies;

modulating said different signals at the respective frequencies;

combining said plurality of different signals to provide a composite signal comprising the different signals at the respective carrier frequencies; and

amplifying said composite signal wherein the method further comprises the steps of:

predistorting the plurality of different digital signals prior to amplification of the composite signal by the amplification means during or after the modulation step; and

altering the predistortion applied to subsequent signals in dependence on the difference between said different signals and the amplified signal.

REMARKS

The above preliminary amendment is made to insert an abstract page into the application and to enter new claims 23-44.

Applicant respectfully requests that this preliminary amendment be entered into the record prior to calculation of the filing fee and prior to examination and consideration of the above-identified application.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicant's attorney of record, Michael B. Lasky at 952-912-0527.

Altera Law Group, LLC
6500 City West Parkway, Suite 100
Minneapolis, MN 55344-7701
(952) 912-0527

By:

Michael B. Lasky
Reg. No. 29,555

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system of equations (1) as $\epsilon \rightarrow 0$. It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.